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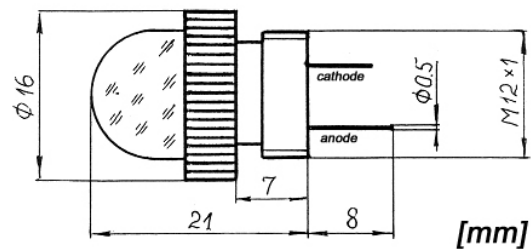
TECHNICAL DATA

INFRARED HIGH POWER LED

Wavelength: **typ. 800 nm**

Optical power: **typ. 90 mW at 500 mA**

Package: **M12 x 1 thread package**



Absolute Maximum Ratings (T_c = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Forward Current	I _F	550	mA
Pulse Forward Current *)	I _{FP}	8	A
Allowable Reverse Current	I _R	50	μA
Power Dissipation	P _D	1.2	W
Operating Temperature	T _{OP}	-60 .. +75	°C
Storage Temperature	T _{STG}	-60 .. +95	°C

*) Pulse width ≤ 10 μs, duty cycle ≤ 0.1

Optical-Electrical Characteristics (T_c = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
DC Forward Voltage	V _F	I _F = 500 mA	2.1	2.2	2.3	V
DC Reverse Current	I _R	V _R = 5 V			50	μA
Optical Output Power	P _O	I _F = 500 mA	-	90	-	mW
Peak Wavelength	λ _P	I _F = 500 mA	790	800	810	nm
Spectrum Half Width FWHM	Δλ	I _F = 500 mA	-	40	-	nm
Viewing Angle FWHM	2θ _{1/2}	I _F = 500 mA		8	10	°
Rise Time	t _r	I _F = 500 mA		30		ns
Fall Time	t _f	I _F = 500 mA		40		ns
Thermal Resistance	R _T	-		30		K/W